

## Data coverage of the acoustic Doppler current profilers (ADCP) time series

<i>Mooring</i>	<i>Position</i>	<i>Water depth (m)</i>	<i>Mean ADCP depth</i>	<i>Time period</i>	<i>Duration (d)</i>
<b>AWI-229/6*</b>	63° 57.16'S 00°00.37'W	5200	346.9 ± 56.7 m	Feb. 7, 2005-Dec. 16, 2005	313
<b>AWI-229/7**</b>	63° 57.17'S 00°00.17'W	5200	389.1 ± 25.7 m	Dec. 16, 2005-Feb. 28, 2008	805
<b>AWI-231/6*</b>	66° 30.66'S 00°01.91'W	4540	317.1 ± 0.8 m	Feb. 9, 2005-Dec. 18, 2005	313
<b>AWI-231/7**</b>	66° 30.67'S 00°01.90'W	4540	309.0 ± 1.6 m	Dec. 18, 2005-Mar. 6, 2008	810
<b>AWI-232/7*</b>	68° 59.75'S 00°00.11'W	3370	379.2 ± 3.0 m	Feb. 17, 2005-Dec. 19, 2005	306
<b>AWI-232/8**</b>	68° 59.75'S 00°00.16'W	3370	477.3 ± 2.5 m	Dec. 19, 2005-Mar. 10, 2008	813

\* For further details, see Cisewski et al. (2010).

\*\* For further details, see Cisewski and Strass (2016).

## Instrument configurations for the self-contained acoustic Doppler current profilers (ADCP).

<i>Mooring</i>	<i>Serial No</i>	<i>Frequency</i>	<i>Bin length</i>	<i>Number of bins</i>	<i>Sampling rate</i>	<i>Sampling interval</i>
<b>AWI-229/6*</b>	825	76.8 kHz	16 m	38	1	10 min
<b>AWI-229/7**</b>	5848	76.8 kHz	8 m	80	1	4 min
<b>AWI-231/6*</b>	3813	76.8 kHz	8 m	80	1	2 min
<b>AWI-231/7**</b>	6240	76.8 kHz	8 m	80	1	4 min
<b>AWI-232/7*</b>	5373	76.8 kHz	16 m	38	1	10 min
<b>AWI-232/8**</b>	3813	76.8 kHz	8 m	80	1	4 min

\* For further details, see Cisewski et al. (2010).

\*\* For further details, see Cisewski and Strass (2016).

## References:

Cisewski, B., Strass, V.H., Rhein, M., Krägefsky, S., 2010. Seasonal variation of diel vertical migration of zooplankton from ADCP backscatter time series data in the Lazarev Sea, Antarctica. *Deep-Sea Research I* 57, 78-94, DOI: 10.1016/j.dsr.2009.10.005.

Cisewski, B., Strass, V.H., 2016. Acoustic insights into the zooplankton dynamics of the eastern Weddell Sea. *Progress in Oceanography* 144, 62-92, DOI: 10.1016/j.pocean.2016.03.005.

## First Deployment: February 2005 – December 2005

C:\AWI\_DATA\Expeditionen\ant23\_2\scadcp\AWI-229-6\LR825\raw\_data\LR825000.000

File Size 41.053.503 bytes

BB/WH Ensemble Length 908 bytes

System Frequency: 76.8 kHz

1st Bin 24,52 m, Bin Size 16,00 m

No. Bins 38, Pings/Ens 1, Time/Ping 10:00.00

First Ensemble 00000001 05/02/06 16:11:22.39

Last Ensemble 00045204 05/12/17 14:01:22.39 NVRAM Data in File

C:\AWI\_DATA\Expeditionen\ant23\_2\scadcp\AWI-231-6\LR3813\raw\_data\LR3813000.000 to 001

File Size 394.059.776 bytes

BB/WH Ensemble Length 1748 bytes

System Frequency: 76.8 kHz

1st Bin 16,67 m, Bin Size 8,00 m

No. Bins 80, Pings/Ens 1, Time/Ping 02:00.00

First Ensemble 00000001 05/02/08 10:21:46.15

Last Ensemble 00225430 05/12/18 12:39:46.15 NVRAM Data in File

C:\AWI\_DATA\Expeditionen\ant23\_2\scadcp\AWI-232-7\LR5373\raw\_data\LR5373000.000

File Size 44.288.756 bytes

BB/WH Ensemble Length 995 bytes

System Frequency: 76.8 kHz

1st Bin 24,63 m, Bin Size 16,00 m

No. Bins 38, Pings/Ens 1, Time/Ping 10:00.00

First Ensemble 00000001 05/02/14 12:30:26.18

Last Ensemble 00044503 05/12/20 13:30:26.18 NVRAM Data in File

## Second Deployment: December 2005 – March 2008

C:\AWI\_DATA\Expeditionen\ant24\_3\scadcp\AWI-229-7\LR5848\raw\_data\LR5848000.000

File Size 509.003.784 bytes

BB/WH Ensemble Length 1754 bytes

System Frequency: 76.8 kHz

1st Bin 16,67 m, Bin Size 8,00 m

No. Bins 80, Pings/Ens 1, Time/Ping 00:00.00

First Ensemble 00000001 05/12/15 16:32:19.87

Last Ensemble 00290159 08/02/29 16:24:19.80 NVRAM Data in File

C:\AWI\_DATA\Expeditionen\ant24\_3\scadcp\AWI-231-7\LR6240\raw\_data\LR6240000.000

File Size 511.864.558 bytes

BB/WH Ensemble Length 1754 bytes

System Frequency: 76.8 kHz

1st Bin 16,73 m, Bin Size 8,00 m

No. Bins 80, Pings/Ens 1, Time/Ping 00:00.00

First Ensemble 00000001 05/12/18 04:24:10.51

Last Ensemble 00291826 08/03/07 19:24:10.48 NVRAM Data in File

C:\AWI\_DATA\Expeditionen\ant24\_3\scadcp\AWI-232-8\LR3813\raw\_data\LR3813000.000 to 001

File Size 511.574.016 bytes

BB/WH Ensemble Length 1748 bytes

System Frequency: 76.8 kHz

1st Bin 16,71 m, Bin Size 8,00 m

No. Bins 80, Pings/Ens 1, Time/Ping 00:00.00

First Ensemble 00000001 05/12/19 10:18:29.15

Last Ensemble 00292658 08/03/11 08:46:29.15 NVRAM Data in File